

STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 100980

To: Mark Clardy
Location: CM1-2D11
Art Unit: 1616
Thursday, August 14, 2003

Case Serial Number: 09/856188

From: Beverly Shears
Location: Biotech-Chem Library
CM1-1E05
Phone: 308-4994

beverly.shears@uspto.gov

Search Notes

SEARCH REQUEST FORM

Requestor's Name: _____ Serial Number: _____
Date: _____ Phone: _____ Art Unit: _____

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s)...

STAFF USE ONLY

Date completed: 08-14-03
Searcher: Beverly 24994
Terminal time: ?
Elapsed time: _____
CPU time: _____
Total time: _____
Number of Searches: _____
Number of Databases: 1

Search Site

_____ STIC
_____ CM-1
_____ Pre-S

Type of Search

_____ N.A. Sequence
_____ A.A. Sequence
_____ Structure
_____ Bibliographic

Vendors

_____ IG
_____ ☒ STN
_____ Dialog
_____ APS
_____ Geninfo
_____ SDC
_____ DARC/Questel
_____ Other

100°980°

SEARCH REQUEST FORM

Access DB# _____

Scientific and Technical Information Center

Requester's Full Name Mark Clardy Examiner # 69462 Date: 8/12/2003
 An Unit 1616 Phone Number 808-4550 Serial Number 09/856,188
 Mail Box and Bldg Room Location 2D11 Results Format Preferred (circle) PAPER DISK E-MAIL

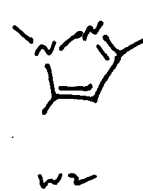
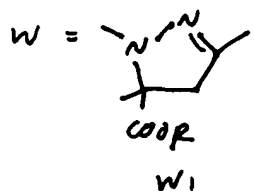
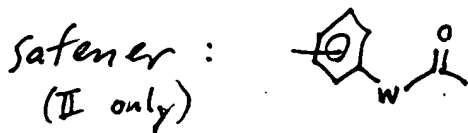
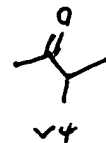
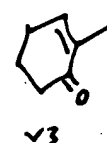
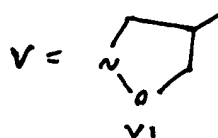
If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the electron species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention _____
 Inventors (please provide full names): See Bib. Data Sheet, attached
 Earliest Priority Filing Date: _____

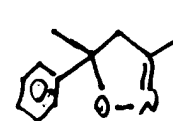
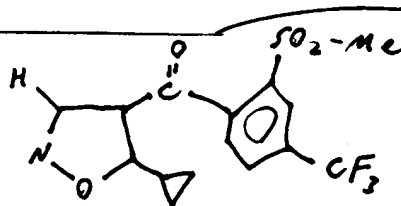
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Safened herbicidal compositions:



Electron species:

herbicide 1-1:



safener II-9:

isoxadifen-ethyl

(see attached data sheet)

(Claim 1 attached)

STAFF USE ONLY

Type of Search

Vendors and cost where applicable

Searcher _____

NA Sequence (#) _____

STN _____

Searcher Phone # _____

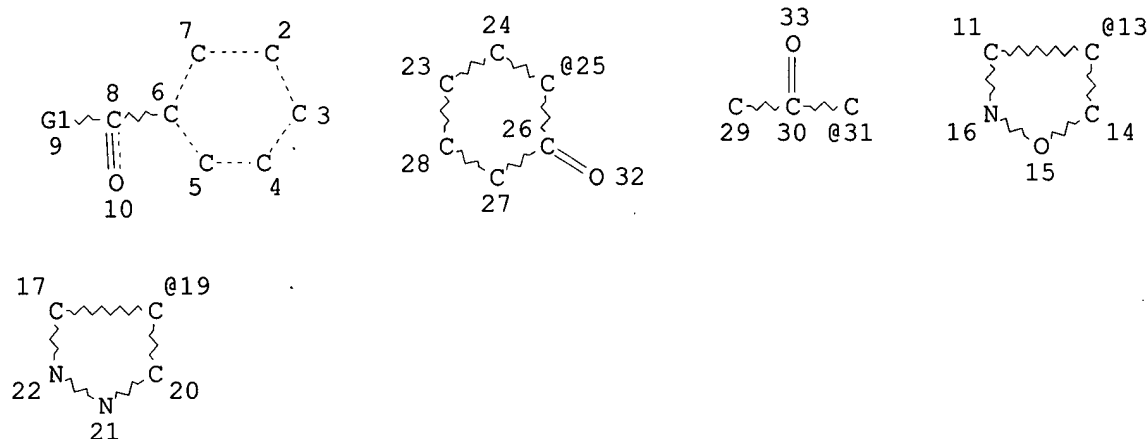
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09/856188

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Str. I

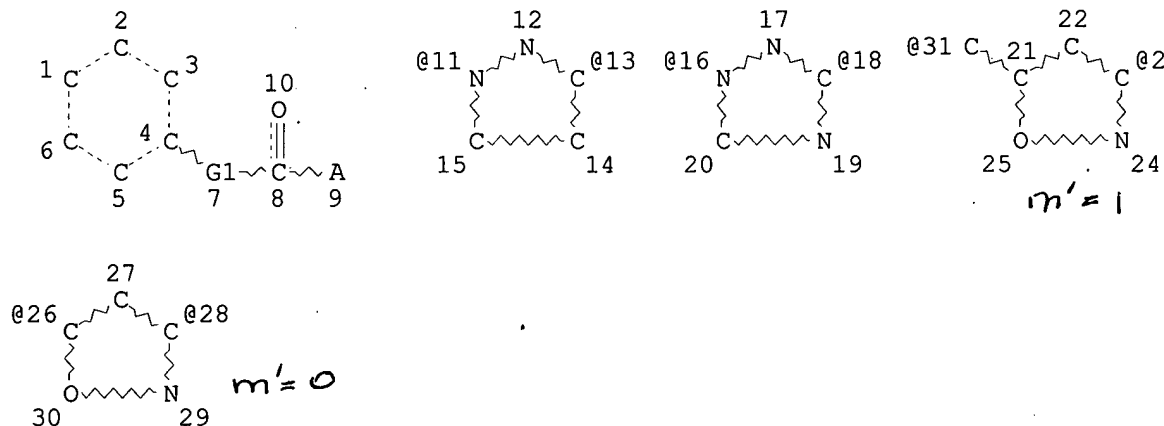


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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE
L2 STR

Str. II



Page 1-A
3

Page 1-B
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DEFAULT MLEVEL IS ATOM

09/856188

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

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NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

L3 219 SEA FILE=REGISTRY SSS FUL L1 AND L2

L4 30 SEA FILE=REGISTRY ABB=ON PLU=ON L3 AND 2/NC

FILE 'HCAPLUS' ENTERED AT 11:05:35 ON 14 AUG 2003

L5 8 S L4

L5 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2003:417551 HCAPLUS

DOCUMENT NUMBER: 139:2380

TITLE: Herbicidal compositions containing
benzoylpyrazoles and safeners

INVENTOR(S): Schmitt, Monika; Willms, Lothar; Ziemer, Frank;
Rosinger, Christopher; Bieringer, Hermann; Huff,
Hans Philipp; Hacker, Erwin

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

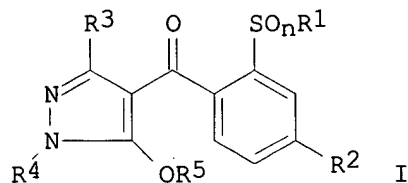
DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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W: AE, AG, AL, AM, AU, AZ, BA, BB, BR, BY, BZ, CA, CN, CO, CR, CU, DM, DZ, EC, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SC, SG, SI, TJ, TM, TN, TT, UA, US, UZ, VC, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10157545	A1	20030612	DE 2001-10157545	20011123
PRIORITY APPLN. INFO.:			DE 2001-10157545 A	20011123
OTHER SOURCE(S):		MARPAT 139:2380		
GI				



AB The invention relates to herbicidal compns. contg. benzoylpyrazoles

09/856188

I (R1, R4 = Me or Et; R2 = CF3, F, Cl or Br; R3 = H or Me; R5 = H, methylsulfonyl, ethylsulfonyl, propylsulfonyl, phenylsulfonyl, benzyl, etc.; n = 0, 1 or 2) and a safener.

IT 532946-74-0 532946-76-2

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicidal compn.)

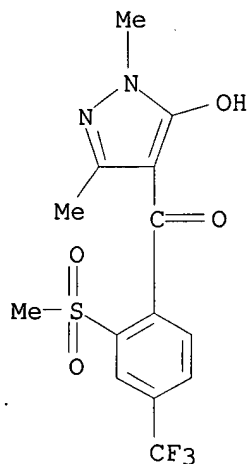
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CRN 365400-11-9

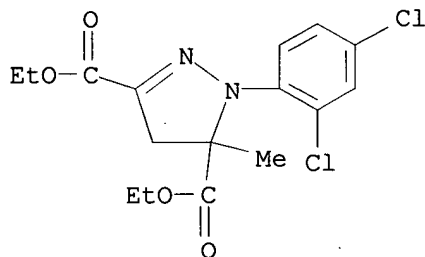
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CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4



RN 532946-76-2 HCAPLUS

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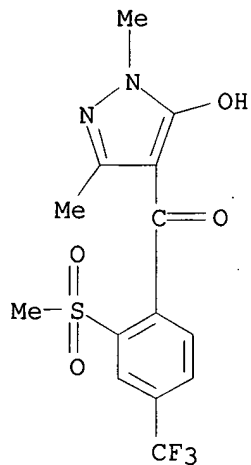
09/856188

(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA
INDEX NAME)

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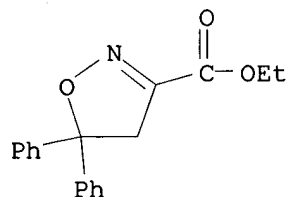
CMF C14 H13 F3 N2 O4 S



CM 2

CRN 163520-33-0

CMF C18 H17 N O3



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L5 ANSWER 2 OF '8 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:946035 HCAPLUS

DOCUMENT NUMBER: 138:1338

TITLE: Herbicidal compositions containing
benzoylpyrazoles and safeners

INVENTOR(S): Ziemer, Frank; Van Almsick, Andreas; Koehn,
Arnim; Willms, Lothar; Zeiss, Hans-Joachim;
Bieringer, Hermann; Hacker, Erwin

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

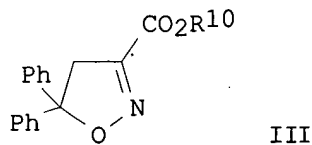
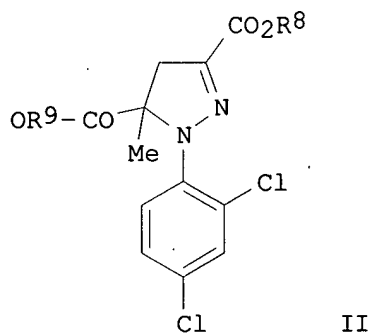
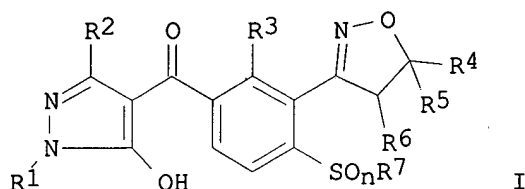
SOURCE: PCT Int. Appl., 27 pp.

Searcher : Shears 308-4994

09/856188

DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098229	A1	20021212	WO 2002-EP5658	20020523
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, OM, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TN, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10127328	A1	20021219	DE 2001-10127328	20010606
US 2003032559	A1	20030213	US 2002-164107	20020604
PRIORITY APPLN. INFO.:			DE 2001-10127328 A	20010606
OTHER SOURCE(S):			MARPAT 138:1338	
GI				



AB The invention relates to herbicidal compns. which contain herbicidal benzoylpyrazoles I [R1, R7 = alkyl; R2, R4, R5, R6 = H or alkyl; R3 = H, (halo)alkyl, (halo)alkoxy, alkylthio, alkylsulfinyl or alkylsulfonyl; n = 0, 1 or 2] and II or III (R8, R9, R10 = H or alkyl) as a safener.

IT 477293-47-3 477293-49-5 477293-51-9

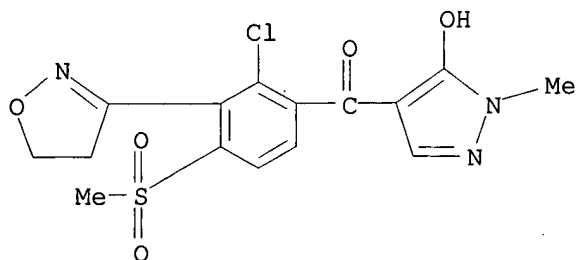
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
 (safened herbicidal compn.)

09/856188

RN 477293-47-3 HCAPLUS
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mixt. with [2-chloro-3-(4,5-dihydro-3-isoxazolyl)-4-
(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)methanone
(9CI) (CA INDEX NAME)

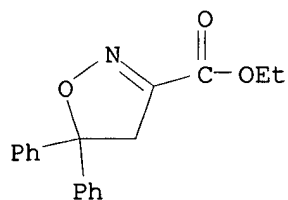
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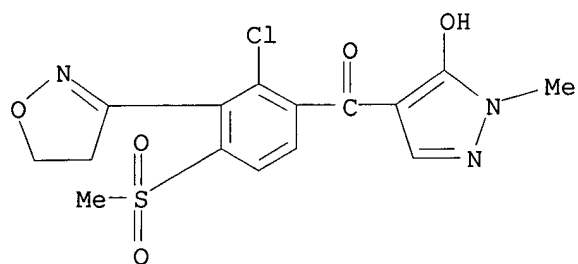


RN 477293-49-5 HCAPLUS
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-
dihydro-5-methyl-, diethyl ester, mixt. with [2-chloro-3-(4,5-
dihydro-3-isoxazolyl)-4-(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-
1H-pyrazol-4-yl)methanone (9CI) (CA INDEX NAME)

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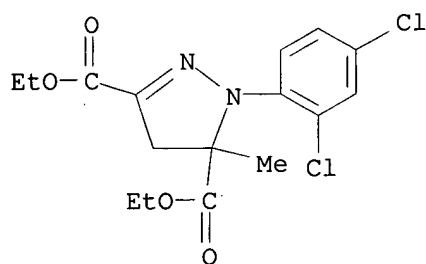
09/856188



CM 2

CRN 135590-91-9

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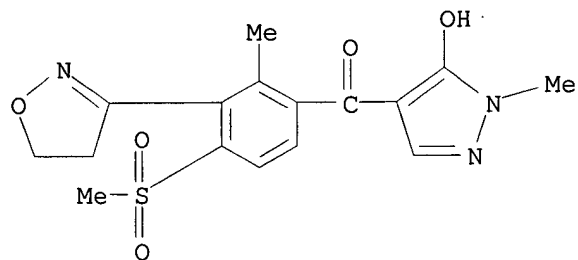
RN 477293-51-9 HCAPLUS

CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with [3-(4,5-dihydro-3-isoxazolyl)-2-methyl-4-(methylsulfonyl)phenyl] (5-hydroxy-1-methyl-1H-pyrazol-4-yl)methanone (9CI) (CA INDEX NAME)

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CRN 210631-68-8

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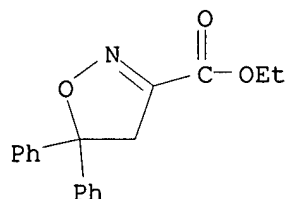


CM 2

CRN 163520-33-0

CMF C18 H17 N O3

09/856188



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L5 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:832541 HCAPLUS

DOCUMENT NUMBER: 137:306053

TITLE: Herbicidal compositions comprising
benzoylcyclohexanediones and safeners

INVENTOR(S): Ziemer, Frank; Van Almsick, Andreas; Willms,
Lothar; Auler, Thomas; Bieringer, Hermann;
Hacker, Erwin; Rosinger, Christopher

PATENT ASSIGNEE(S): Bayer Cropscience G.m.b.H., Germany

SOURCE: PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

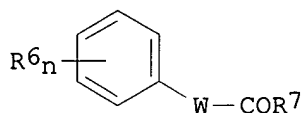
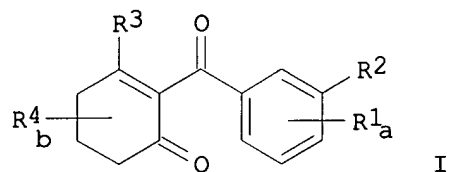
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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WO 2002085120	A3	20030220		
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RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10119721	A1	20021031	DE 2001-10119721	20010421
US 2003078167	A1	20030424	US 2002-126041	20020418
PRIORITY APPLN. INFO.:			DE 2001-10119721 A	20010421
OTHER SOURCE(S):	MARPAT 137:306053			
GI				

09/856188



AB Herbicidal compns. comprise a benzoylcyclohexanedione deriv. I [R1 = NO2, halo, NH2, CN, (halo)alkyl, (halo)alkenyl, etc.; R2 = haloalkoxyalkyl, alkoxyalkoxyalkoxyalkyl, cycloalkoxyalkyl, etc.; R3 = OH, CN, halo, alkylthio, etc.; R4 = alkyl; R5 = H, (halo)alkyl or alkoxyalkyl; a = 0, 1, 2 or 3; b = 0, 1 or 2] and a safener. The safeners are Q, R8CONR9R10, etc. [W = substituted pyrazolyl, imidazolyl, oxazolyl, etc. ; R6 = H, halo, (halo)alkyl, alkoxy or NO2; R7 = OH, SH, substituted heterocyclyl, etc.; n = 1-5; R8 = (halo)alkyl, (halo)alkenyl or cycloalkyl; R9, R10 = H, (halo)alkyl, (halo)alkenyl, etc.].

IT 473278-60-3 473278-62-5 473278-65-8
473278-67-0 473278-69-2 473278-71-6
473278-73-8 473278-75-0 473278-77-2
473278-81-8 473278-83-0

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicidal compn.)

RN 473278-60-3 HCAPLUS

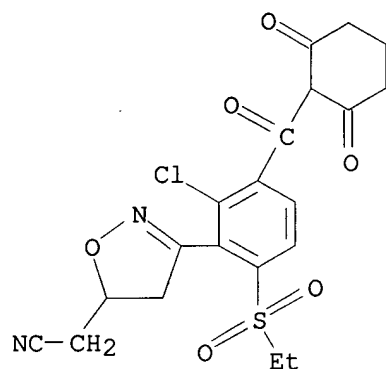
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CRN 335104-81-9

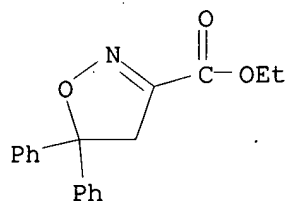
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09/856188



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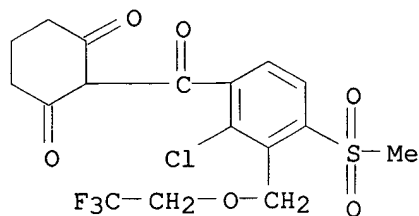
CRN 163520-33-0
CMF C18 H17 N O3



RN 473278-62-5 HCAPLUS
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mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-
trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA
INDEX NAME)

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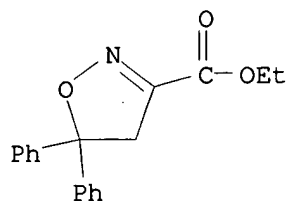


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CRN 163520-33-0

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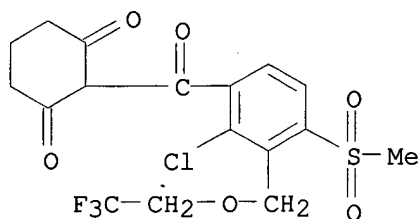
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2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA
INDEX NAME)

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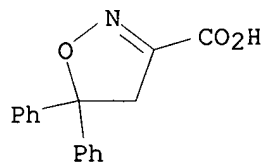
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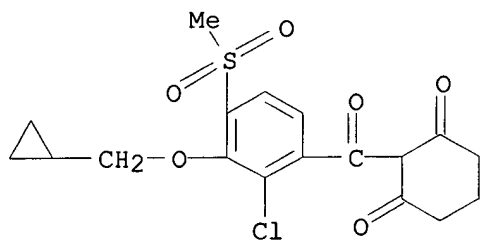
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CRN 402790-52-7

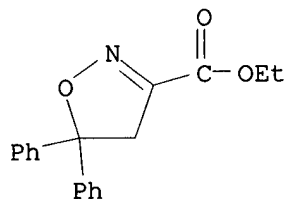
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09/856188



CM 2

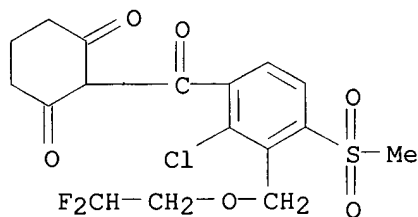
CRN 163520-33-0
CMF C18 H17 N O3



RN 473278-69-2 HCAPLUS
CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester,
mixt. with 2-[2-chloro-3-[(2,2-difluoroethoxy)methyl]-4-
(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

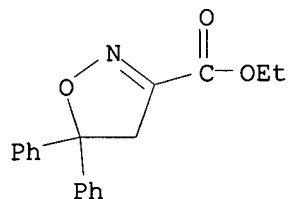
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CMF C17 H17 Cl F2 O6 S



CM 2

CRN 163520-33-0
CMF C18 H17 N O3

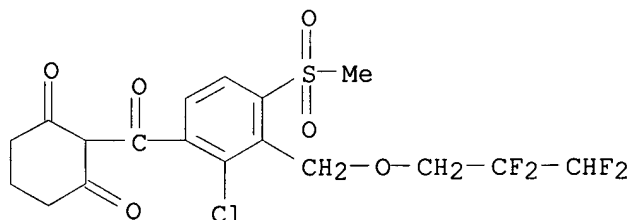
09/856188



RN 473278-71-6 HCAPLUS
CN 3-Isioxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester,
mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,3,3-
tetrafluoropropoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA
INDEX NAME)

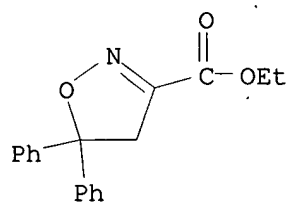
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CRN 473278-70-5
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CM 2

CRN 163520-33-0
CMF C18 H17 N O3

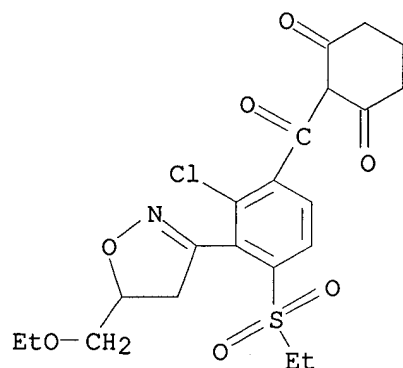


RN 473278-73-8 HCAPLUS
CN 3-Isioxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester,
mixt. with 2-[2-chloro-3-[5-(ethoxymethyl)-4,5-dihydro-3-isoxazolyl]-
4-(ethylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX
NAME)

CM 1

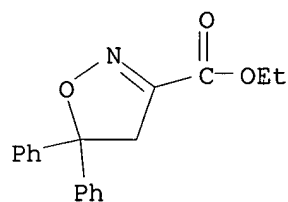
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CMF C21 H24 Cl N O7 S

09/856188



CM 2

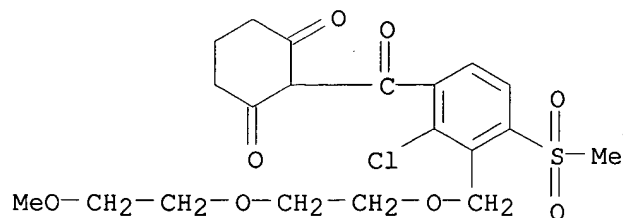
CRN 163520-33-0
CMF C18 H17 N O3



RN 473278-75-0 HCAPLUS
CN 3-Isoxazolecaboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester,
mixt. with 2-[2-chloro-3-[[2-(2-methoxyethoxy)ethoxy]methyl]-4-
(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 473278-74-9
CMF C20 H25 Cl O8 S

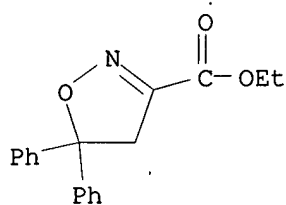


CM 2

CRN 163520-33-0

09/856188

CMF C18 H17 N O3



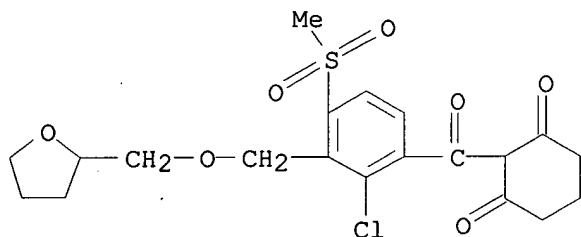
RN 473278-77-2 HCAPLUS

CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[[tetrahydro-2-furanyl)methoxy]methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 473278-76-1

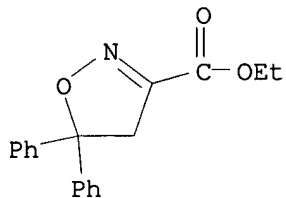
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CM 2

CRN 163520-33-0

CMF C18 H17 N O3



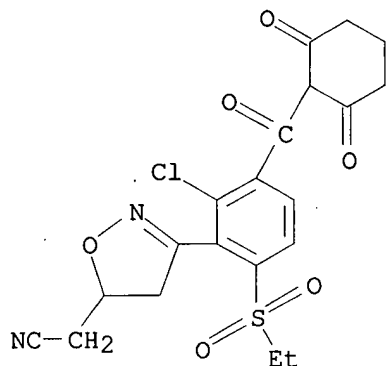
RN 473278-81-8 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with 3-[2-chloro-3-[(2,6-dioxocyclohexyl)carbonyl]-6-(ethylsulfonyl)phenyl]-4,5-dihydro-5-isoxazoleacetonitrile (9CI) (CA INDEX NAME)

CM 1

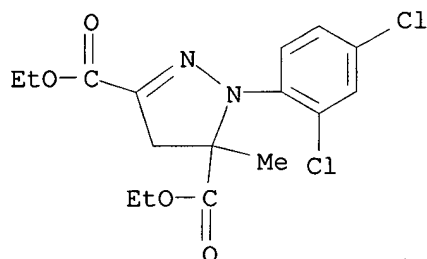
09/856188

CRN 335104-81-9
CMF C20 H19 Cl N2 O6 S



CM 2

CRN 135590-91-9
CMF C16 H18 Cl2 N2 O4

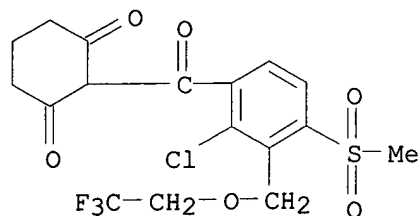


RN 473278-83-0 HCAPLUS
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)-3-[(2,2,2-trifluoroethoxy)methyl]benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 335104-84-2
CMF C17 H16 Cl F3 O6 S

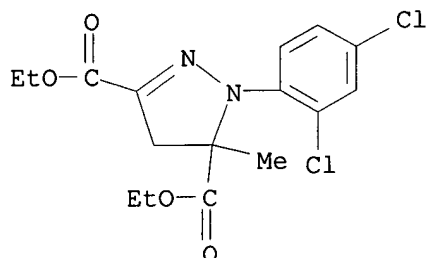
09/856188



CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4



L5 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:609552 HCAPLUS

DOCUMENT NUMBER: 137:136361

TITLE: Selective herbicidal compositions comprising arylketones and safeners

INVENTOR(S): Feucht, Dieter; Dahmen, Peter; Drewes, Mark-Wilhelm; Pontzen, Rolf; Mueller, Klaus-Helmut; Lehr, Stefan; Schwarz, Hans-Georg; Goto, Toshio; Shirakura, Shinichi

PATENT ASSIGNEE(S): Bayer Ag, Germany; Nihon Bayer Agrochem K.K.

SOURCE: Ger. Offen., 52 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10106420	A1	20020814	DE 2001-10106420	20010212
WO 2002063957	A2	20020822	WO 2002-EP911	20020130
WO 2002063957	A3	20021219		

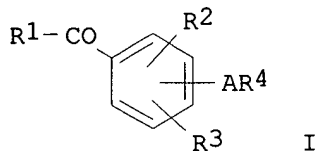
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Searcher : Shears 308-4994

09/856188

AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT,
SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

PRIORITY APPLN. INFO.: DE 2001-10106420 A 20010212
OTHER SOURCE(S): MARPAT 137:136361
GI



AB The title compns. contain substituted arylketones I (A = alkanediyl;
R1 = substituted cyclohexene, imidazolyl, oxazolyl etc.; R2, R3 = H,
nitro, cyano, carboxy, carbamoyl, etc.; R4 = mono-, di- or
heterocycyl, etc.), any of a large no. of known safeners (MON-4660,
dicyclonon, benoxacor, cloquintocet-mexyl, cumyluron, cyometrinil,
furilazole, etc.) and optionally other active ingredients.

IT **444899-93-8 444899-94-9**

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(selective safened herbicidal compn.)

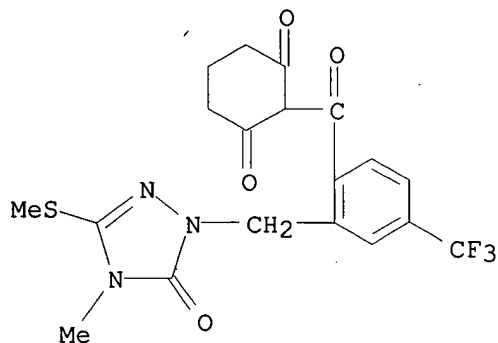
RN 444899-93-8 HCAPLUS

CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-
dihydro-5-methyl-, diethyl ester, mixt. with 2-[2-[[4,5-dihydro-4-
methyl-3-(methylthio)-5-oxo-1H-1,2,4-triazol-1-yl]methyl]-4-
(trifluoromethyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX
NAME)

CM 1

CRN 256230-72-5

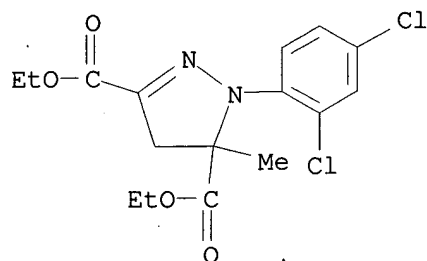
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CM 2

09/856188

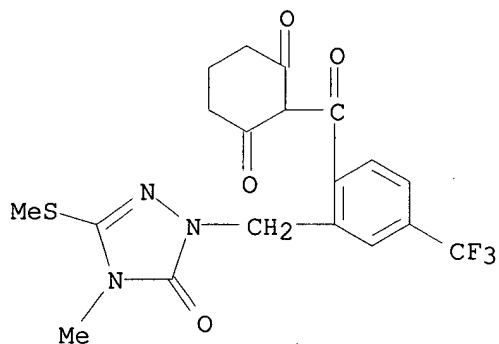
CRN 135590-91-9
CMF C16 H18 Cl2 N2 O4



RN 444899-94-9 HCAPLUS
CN 1H-1,2,4-Triazole-3-carboxylic acid, 1-(2,4-dichlorophenyl)-5-(trichloromethyl)-, ethyl ester, mixt. with 2-[2-[[4,5-dihydro-4-methyl-3-(methylthio)-5-oxo-1H-1,2,4-triazol-1-yl]methyl]-4-(trifluoromethyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

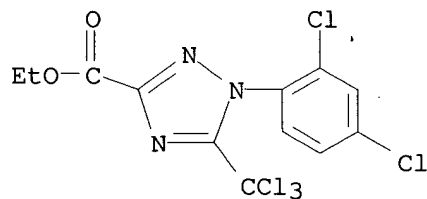
CM 1

CRN 256230-72-5
CMF C19 H18 F3 N3 O4 S



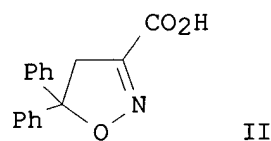
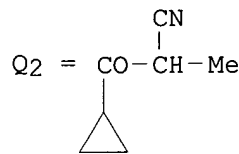
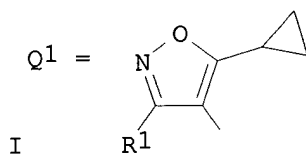
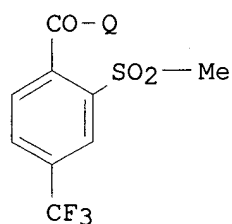
CM 2

CRN 103112-35-2
CMF C12 H8 Cl3 N3 O2



L5 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2001:207869 HCAPLUS
 DOCUMENT NUMBER: 134:218321
 TITLE: Safened herbicidal composition
 INVENTOR(S): Ruegg, Willy T.
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.
 SOURCE: Eur. Pat. Appl., 13 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1084618	A1	20010321	EP 2000-120012	20000914
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CN 1288665	A	20010328	CN 2000-126384	20000912
BR 2000004171	A	20010417	BR 2000-4171	20000914
US 6489267	B1	20021203	US 2000-663224	20000915
PRIORITY APPLN. INFO.:			CH 1999-1700	A 19990916
OTHER SOURCE(S):		MARPAT 134:218321		
GI				

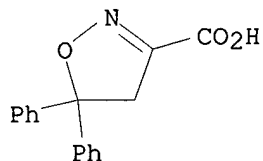


AB A safened selective herbicidal compn. comprises I (Q = Q¹ or Q²; R¹ = H, COO-C₁-C₄-alkyl, -S-C₁-C₄-alkyl or -SO-C₁-C₄-alkyl) and the safener II.
 IT **329716-59-8**
 RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (safened herbicidal compn.)
 RN 329716-59-8 HCAPLUS
 CN 3-Isioxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, mixt. with (5-cyclopropyl-4-isoxazolyl) [2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)

CM 1

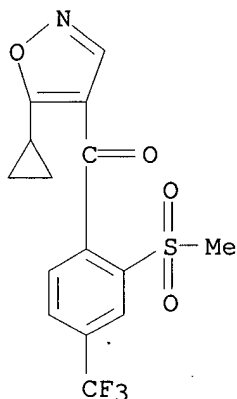
09/856188

CRN 209866-92-2
CMF C16 H13 N O3



CM 2

CRN 141112-29-0
CMF C15 H12 F3 N O4 S



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR
THIS RECORD. ALL CITATIONS AVAILABLE IN
THE RE FORMAT

L5 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:185497 HCAPLUS
DOCUMENT NUMBER: 134:218316
TITLE: Safened benzoylisoxazole herbicides
INVENTOR(S): Pallett, Ken; Slater, Ashley
PATENT ASSIGNEE(S): Aventis Cropscience UK Ltd., UK
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001017350	A1	20010315	WO 2000-EP9339	20000908
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,				

Searcher : Shears 308-4994

09/856188

LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ,
PL, PT, RO, RU, SD, SE, SG
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
BR 2000013848 A 20020514 BR 2000-13848 20000908
EP 1213966 A1 20020619 EP 2000-966068 20000908
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC,
PT, IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 2003508464 T2 20030304 JP 2001-521153 20000908
BG 106452 A 20020930 BG 2002-106452 20020227
PRIORITY APPLN. INFO.: GB 1999-21220 A 19990908
GB 2000-12090 A 20000519
WO 2000-EP9339 W 20000908

OTHER SOURCE(S): MARPAT 134:218316

AB The invention provides a method of reducing phytotoxicity to crops
(esp. maize) caused by a herbicidal benzoylisoxazole and/or dione
deriv. by using as an antidote flurazole, fenchlorazole-Et,
fenchlorazole, benoxacor, dichlormid, fenclorim, furilazole,
mefenpyr-diethyl, etc.

IT **268548-27-2 329716-57-6 329716-58-7**
329716-59-8

RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses)
(safened herbicidal compn.)

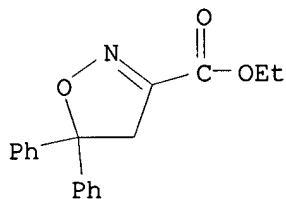
RN 268548-27-2 HCAPLUS

CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester,
mixt. with (5-cyclopropyl-4-isoxazolyl)[2-(methylsulfonyl)-4-
(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)

CM 1

CRN 163520-33-0

CMF C18 H17 N O3

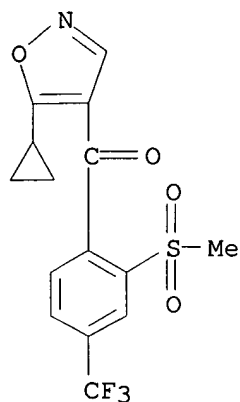


CM 2

CRN 141112-29-0

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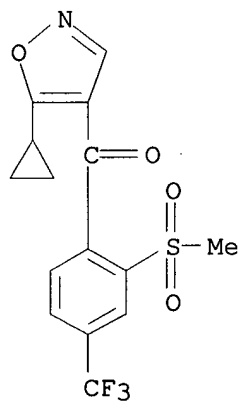
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RN 329716-57-6 HCAPLUS
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with (5-cyclopropyl-4-isoxazolyl) [2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)

CM 1

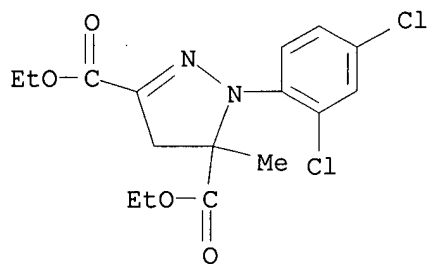
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CMF C15 H12 F3 N O4 S



CM 2

CRN 135590-91-9
CMF C16 H18 Cl2 N2 O4

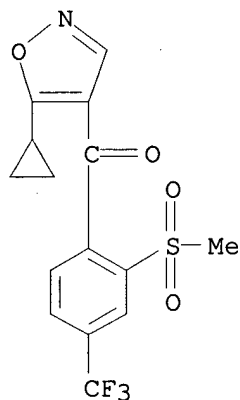
09/856188



RN 329716-58-7 HCAPLUS
CN 1H-1,2,4-Triazole-3-carboxylic acid, 1-(2,4-dichlorophenyl)-5-(trichloromethyl)-, ethyl ester, mixt. with (5-cyclopropyl-4-isoxazolyl) [2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)

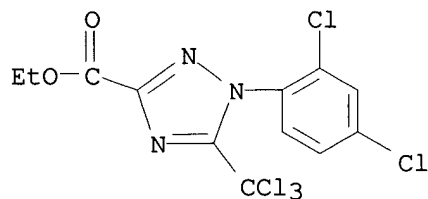
CM 1

CRN 141112-29-0
CMF C15 H12 F3 N O4 S



CM 2

CRN 103112-35-2
CMF C12 H8 C15 N3 O2



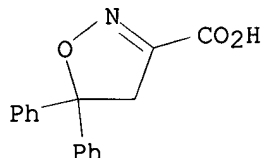
RN 329716-59-8 HCAPLUS
CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, mixt. with

09/856188

(5-cyclopropyl-4-isoxazolyl)[2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)

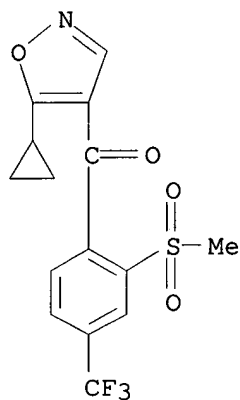
CM 1

CRN 209866-92-2
CMF C16 H13 N O3



CM 2

CRN 141112-29-0
CMF C15 H12 F3 N O4 S



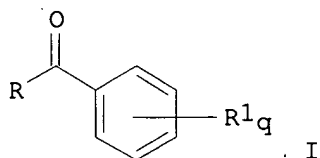
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE
FOR THIS RECORD. ALL CITATIONS AVAILABLE
IN THE RE FORMAT

L5 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2000:349132 HCAPLUS
DOCUMENT NUMBER: 132:330878
TITLE: Combinations of herbicides and safeners.
INVENTOR(S): Ziemer, Frank; Willms, Lothar; Bieringer,
Hermann; Hacker, Erwin
PATENT ASSIGNEE(S): Aventis Cropscience G.m.b.H., Germany
SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Searcher : Shears 308-4994

09/856188

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19853827	A1	20000525	DE 1998-19853827	19981121
WO 2000030447	A1	20000602	WO 1999-EP8470	19991105
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG BR 9915516 A 20010717 BR 1999-15516 19991105 EP 1130965 A1 20010912 EP 1999-972493 19991105 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO JP 2002530301 T2 20020917 JP 2000-583345 19991105 BG 105474 A 20011130 BG 2001-105474 20010425 PRIORITY APPLN. INFO.: DE 1998-19853827 A 19981121 WO 1999-EP8470 W 19991105 OTHER SOURCE(S): MARPAT 132:330878 GI				



App

*(earlier than
any material
ref?)*

AB Safened herbicidal compns. are described contg. at least one herbicide and one antidote. The herbicide is a benzoyl deriv. I [R = isoxazol-4-yl, pyrazol-4-yl, cyclohexan-1,3-dion-2-yl or 3-oxopropionitril-2-yl; R1 = (un)substituted nitro, amino, halo, etc., q = 0, 1-4]. The antidote is e.g. 2,4-D, cyometrinil, dicamba, dymron, fenclorim, flurazole, fluxofenim, lactidichlor, MCPA, mecoprop, MG-191, oxabetrinil, Me diphenylmethoxyacetate, 1-[4-(N-2-methoxybenzoylsulfamoyl)phenyl]-3-methylurea, 1,8-naphthalic anhydride, 1-[4-(N-2-methoxybenzoylsulfamoyl)phenyl]-3,3-dimethylurea, 1-[4-(4,5-dimethylbenzoylsulfamoyl)phenyl]-3-methylurea, 1-[4-(N-naphthoylsulfamoyl)phenyl]-3,3-dimethylurea, (4-chlorophenoxy)acetic acid, 4-(2,4-dichlorophenoxy)butyric acid, 4-(4-chloro-o-tolyloxy)butyric acid, 4-(4-chlorophenoxy)butyric acid, free, esterified, or salts, N-acylsulfonamides, N-acylsulfamoylbenzoic acid amides as well as substituted 1-phenylpyrazoline, 1-phenylpyrazole, 1-phenyltriazole, 5-phenylisoxazoline, 5-phenylmethylisoxazolin-3-carboxylic acid and 2-(8-quinolinyloxy)acetic acid derivs.

IT 268548-23-8 268548-25-0 268548-26-1
268548-27-2
RL: AGR (Agricultural use); BIOL (Biological study); USES (Uses) (safened herbicidal compn.)

RN 268548-23-8 HCAPLUS

CN 3-Isioxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)benzoyl]-3-hydroxy-2-

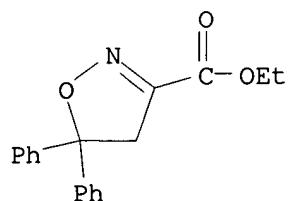
09/856188

cyclohexen-1-one (9CI) (CA INDEX NAME)

CM 1

CRN 163520-33-0

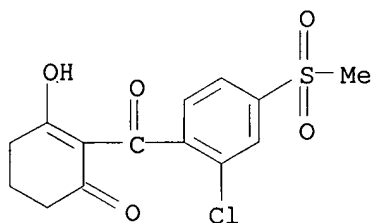
CMF C18 H17 N O3



CM 2

CRN 129233-47-2

CMF C14 H13 Cl O5 S



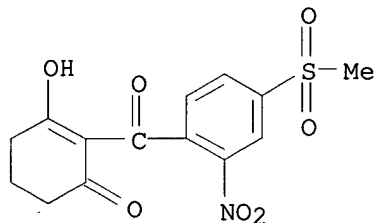
RN 268548-25-0 HCAPLUS

CN 3-Isoxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with 3-hydroxy-2-[4-(methylsulfonyl)-2-nitrobenzoyl]-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

CM 1

CRN 268548-24-9

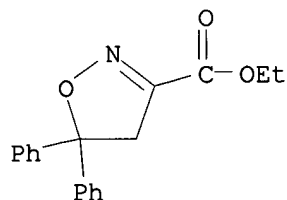
CMF C14 H13 N O7 S



CM 2

09/856188

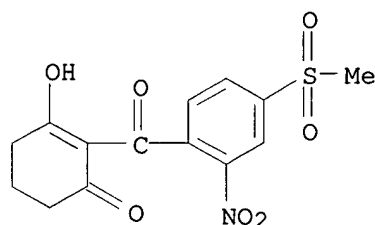
CRN 163520-33-0
CMF C18 H17 N O3



RN 268548-26-1 HCAPLUS
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with 3-hydroxy-2-[4-(methylsulfonyl)-2-nitrobenzoyl]-2-cyclohexen-1-one (9CI) (CA INDEX NAME)

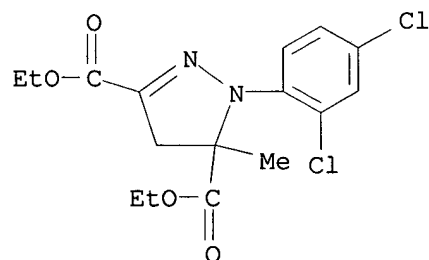
CM 1

CRN 268548-24-9
CMF C14 H13 N O7 S



CM 2

CRN 135590-91-9
CMF C16 H18 Cl2 N2 O4

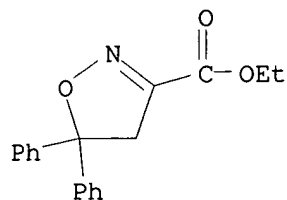


RN 268548-27-2 HCAPLUS
CN 3-Isioxazolecarboxylic acid, 4,5-dihydro-5,5-diphenyl-, ethyl ester, mixt. with (5-cyclopropyl-4-isoxazolyl)[2-(methylsulfonyl)-4-(trifluoromethyl)phenyl]methanone (9CI) (CA INDEX NAME)

09/856188

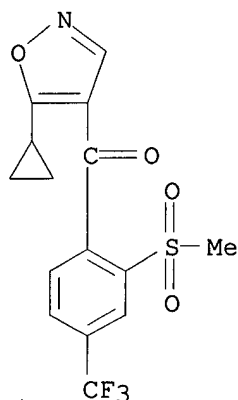
CM 1

CRN 163520-33-0
CMF C18 H17 N O3



CM 2

CRN 141112-29-0
CMF C15 H12 F3 N O4 S



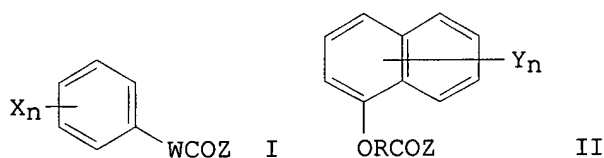
L5 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1993:619594 HCAPLUS
DOCUMENT NUMBER: 119:219594
TITLE: Antidotes for cyclohexanedione herbicides.
INVENTOR(S): Ort, Oswald; Willms, Lothar; Zeiss, Hans
Joachim; Mueller, Stephan; Stark, Herbert;
Schuetze, Rainer; Bauer, Klaus; Bierier, Hermann
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 551650	A2	19930721	EP 1992-121984	19921224
EP 551650	A3	19940202		

Searcher : Shears 308-4994

09/856188

EP 551650	B1	19991013			
R: DE, FR, GB, IT					
EP 943240	A2	19990922	EP 1999-105886		19921224
EP 943240	A3	19991013			
EP 943240	B1	20011114			
R: DE, FR, GB, IT					
JP 05279204	A2	19931026	JP 1992-349044		19921228
JP 3413227	B2	20030603			
US 5441922	A	19950815	US 1992-998009		19921229
CA 2086491	AA	19930701	CA 1992-2086491		19921230
AU 9230477	A1	19930708	AU 1992-30477		19921230
AU 662581	B2	19950907			
PRIORITY APPLN. INFO.:			DE 1991-4143253	A	19911231
			EP 1992-121984	A3	19921224
OTHER SOURCE(S):		MARPAT 119:219594			
GI					



AB I and II [X = H, halo, alkyl, etc.; Y = halo, alkyl, NO₂, etc.; W = divalent (un)substituted 5-membered heterocyclic radical; R = alkylene; Z = OH, alkoxy, (un)substituted NH₂, heterocyclyl, etc.; n = 1-5] are antidotes for cyclohexanedione herbicides. 2-[2-Chloro-4-(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (500 g/ha) was phytotoxic to wheat. No such effect was shown in the presence of 1-methylhex-1-yl 2-(5-chloro-8-quinolinoxy)acetate (500 g/ha). The antidote did not affect control of *Apera spica-venti* and *Galium aparine* by the herbicide.

IT 150811-09-9 150811-10-2 150811-12-4
150811-14-6 150811-16-8

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicide, safened)

RN 150811-09-9 HCAPLUS

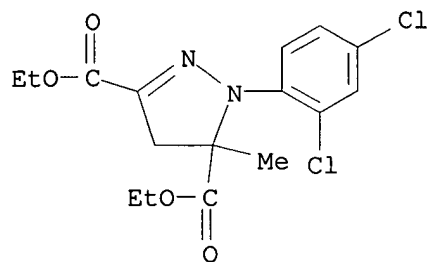
1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 135590-91-9

CMF C16 H18 C12 N2 O4

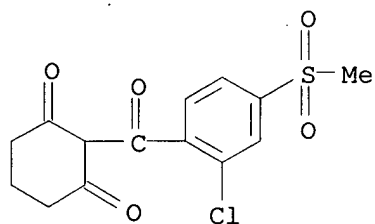
09/856188



CM 2

CRN 99105-77-8

CMF C14 H13 Cl O5 S



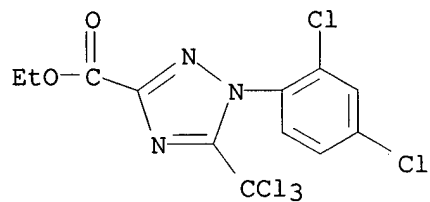
RN 150811-10-2 HCAPLUS

CN 1H-1,2,4-Triazole-3-carboxylic acid, 1-(2,4-dichlorophenyl)-5-(trichloromethyl)-, ethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 103112-35-2

CMF C12 H8 Cl5 N3 O2

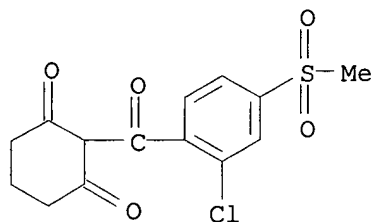


CM 2

CRN 99105-77-8

CMF C14 H13 Cl O5 S

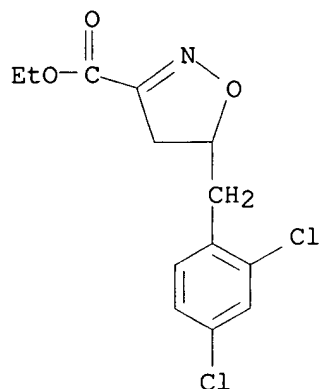
09/856188



RN 150811-12-4 HCAPLUS
CN 3-Isoxazolecarboxylic acid, 5-[(2,4-dichlorophenyl)methyl]-4,5-dihydro-, ethyl ester, mixt. with 2-[2-chloro-4-(methylsulfonyl)benzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

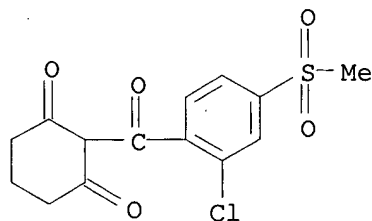
CM 1

CRN 135439-10-0
CMF C13 H13 Cl2 N O3



CM 2

CRN 99105-77-8
CMF C14 H13 Cl O5 S



RN 150811-14-6 HCAPLUS
CN 1H-Pyrazole-3,5-dicarboxylic acid, 1-(2,4-dichlorophenyl)-4,5-dihydro-5-methyl-, diethyl ester, mixt. with 2-[4-(difluoromethoxy)-

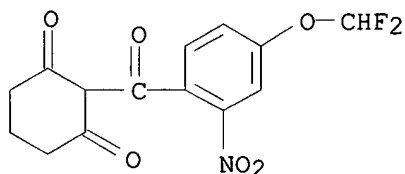
09/856188

2-nitrobenzoyl]-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 144510-51-0

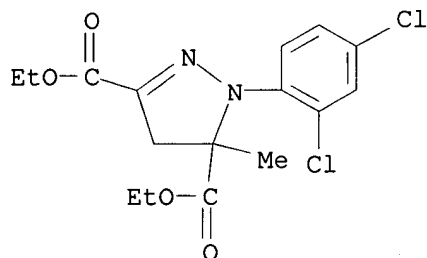
CMF C14 H11 F2 N O6



CM 2

CRN 135590-91-9

CMF C16 H18 Cl2 N2 O4



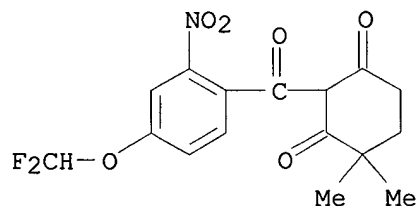
RN 150811-16-8 HCAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 1-(2,4-dichlorophenyl)-5-methyl-, ethyl ester, mixt. with 2-[4-(difluoromethoxy)-2-nitrobenzoyl]-4,4-dimethyl-1,3-cyclohexanedione (9CI) (CA INDEX NAME)

CM 1

CRN 144510-55-4

CMF C16 H15 F2 N O6

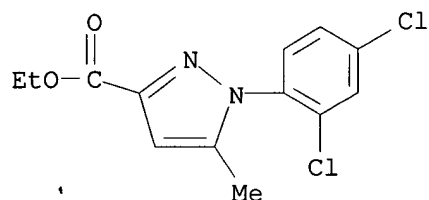


CM 2

CRN 126067-40-1

09/856188

CMF C13 H12 Cl2 N2 O2



L6 FILE 'CAOLD' ENTERED AT 11:06:24 ON 14 AUG 2003
0 S L4

L7 FILE 'USPATFULL' ENTERED AT 11:06:31 ON 14 AUG 2003
4 S L4

L7 ANSWER 1 OF 4 USPATFULL on STN
ACCESSION NUMBER: 2003:113426 USPATFULL
TITLE: Herbicides comprising benzoylcyclohexanediones
and safeners
INVENTOR(S): Ziemer, Frank, Kriftel, GERMANY, FEDERAL REPUBLIC
OF
Almsick, Andreas van, Karben, GERMANY, FEDERAL
REPUBLIC OF
Willms, Lothar, Hofheim, GERMANY, FEDERAL
REPUBLIC OF
Auler, Thomas, Bad Soden, GERMANY, FEDERAL
REPUBLIC OF
Bieringer, Hermann, Eppstein, GERMANY, FEDERAL
REPUBLIC OF
Hacker, Erwin, Hochhiem, GERMANY, FEDERAL
REPUBLIC OF
Rosinger, Christopher, Hofhiem, GERMANY, FEDERAL
REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003078167	A1	20030424
APPLICATION INFO.:	US 2002-126041	A1	20020418 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-119721	20010421
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FROMMER LAWRENCE & HAUG LLP, 745 Fifth Avenue, New York, NY, 10151	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1798	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Herbicidal compositions are described that comprise active substances from the group of the benzoylcyclohexanediones and also safeners. These herbicidal compositions are especially suitable for use against weed plants in crop plant cultures.

09/856188

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 2 OF 4 USPATFULL on STN

ACCESSION NUMBER: 2003:45247 USPATFULL

TITLE: Herbicidal composition comprising
benzoylpyrazoles and safener

INVENTOR(S): Ziemer, Frank, Kriftel, GERMANY, FEDERAL REPUBLIC
OF
Almsick, Andreas van, Karben, GERMANY, FEDERAL
REPUBLIC OF
Kohn, Arnim, Wiesbaden, GERMANY, FEDERAL REPUBLIC
OF
Willms, Lothar, Hofheim, GERMANY, FEDERAL
REPUBLIC OF
Zeiss, Hans-Joachim, Sulzbach/Ts., GERMANY,
FEDERAL REPUBLIC OF
Bieringer, Hermann, Eppstein, GERMANY, FEDERAL
REPUBLIC OF
Hacker, Erwin, Hochheim, GERMANY, FEDERAL
REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003032559	A1	20030213
APPLICATION INFO.:	US 2002-164107	A1	20020604 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2001-127328	20010606
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FROMMER LAWRENCE & HAUG LLP, 745 Fifth Avenue, New York, NY, 10151	
NUMBER OF CLAIMS:	9	
EXEMPLARY CLAIM:	1	
LINE COUNT:	508	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB There are described herbicidal compositions comprising herbicidal
compounds of the formula I and a safener-active compound of the
formula II or III ##STR1##

In formulae I, II and III, the symbols R.sup.1 to R.sup.10 are
hydrogen, halogen and various organic radicals.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 3 OF 4 USPATFULL on STN

ACCESSION NUMBER: 2002:317382 USPATFULL

TITLE: Herbicidal composition

INVENTOR(S): Ruegg, Willy T., Gipf-Oberfrick, SWITZERLAND

PATENT ASSIGNEE(S): Syngenta Crop Protection, Inc., Greensboro, NC,
United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6489267	B1	20021203
APPLICATION INFO.:	US 2000-663224		20000915 (9)

09/856188

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1999-1700	19990916
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Pryor, Alton	
LEGAL REPRESENTATIVE:	Teoli, Jr., William A., Hamilton, Thomas	
NUMBER OF CLAIMS:	12	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	380	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A selective herbicidal composition for controlling grasses and weeds in crops of cultivated plants, comprising

a) a herbicidally effective amount of a compound of formula I
##STR1##

wherein

Q is the group ##STR2##

R.sub.1 is hydrogen, --COO--C.sub.1-C.sub.4-alkyl,
--S--C.sub.1-C.sub.4-alkyl or --SO--C.sub.1-C.sub.4-alkyl; and

b) to antagonise the herbicide, an antidotally effective amount of
a safener of formula II ##STR3##

or the ethyl esters thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 4 USPATFULL on STN

ACCESSION NUMBER: 95:73603 USPATFULL

TITLE: Combinations of benzoyl cyclohexanedione
herbicides and crop-protecting substances

INVENTOR(S): Ort, Oswald, Kelkheim, Germany, Federal Republic
of
Willms, Lothar, Hillscheid, Germany, Federal
Republic of
Zeiss, Hans-Joachim, Sulzbach/Tanus, Germany,
Federal Republic of
Mller, Stephan, Kelkheim, Germany, Federal
Republic of
Stark, Herbert, Kelkheim, Germany, Federal
Republic of
Schutze, Rainer, Idstein/Taunus, Germany, Federal
Republic of
Bauer, Klaus, Hanau, Germany, Federal Republic of
Bieringer, Hermann, Eppstein/Taunus, Germany,
Federal Republic of
PATENT ASSIGNEE(S): Hoechst Aktiengesellschaft, Frankfurt am Main,
Germany, Federal Republic of (non-U.S.
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5441922		19950815

Searcher : Shears 308-4994

09/856188

APPLICATION INFO.: US 1992-998009 19921229 (7)

	NUMBER	DATE
PRIORITY INFORMATION:	DE 1991-41432533	19911231
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Clardy, S. Mark	
LEGAL REPRESENTATIVE:	Curtis, Morris & Safford	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1325	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		
AB	Herbicide/safener combinations of	

A) herbicides selected from the group of the 2-acylated
1,3-dicarbonyl compounds or salts thereof, and

B) safeners B1 and/or B2 ##STR1## as they are defined in claim 1,
are suitable for controlling harmful plants in crops such as
cereals, maize and rice.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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